

Material Safety Data Sheet

May be used to comply with
OSHA's Hazard Communication Standard,
29 CFR 1910.1200 Standard must be
consulted for specific requirements.

U.S. DEPARTMENT of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY (As Used on Label and List)

Code 610, 611, 612, 613
Refractory Cement

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name

RUTLAND PRODUCTS

Emergency Telephone Number

CHEMTREC 800-424-9300

Address (Number, Street, City, State, and Zip Code)

7 CRAB TREE ROAD
JACKSONVILLE, IL 62650

Telephone Number Information

217-245-7963

Date Prepared

June 1990

Date Revised

Sept. 04

Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

Chemical Identity	CAS #	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Sodium Hydroxide	01310-73-2	2mg/m ³	2mg/m ³	ceiling	
Calcium Metasilicate	13983-17-0		10mg/m ³	respirable dust	
Quartz, Crystalline Silica	14808-60-7	0.1mg/m ³	0.1mg/m ³	respirable*	
Sodium Silicate	01344-09-8	None Established			

*The silica in this product is totally encapsulated and thus presents no inhalation danger to the user.

HMIS Rating - Health: 2 Flammability: 0 Reactivity: 0

Section III - Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H ₂ O = 1)	1.8
Vapor Pressure (mm Hg)	N/A	Melting Point	N/A
Vapor Density (Air = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A

Solubility in Water

Product is a mixture, partly soluble in water until heat cured.

Appearance and Odor

Buff-colored trowelable mortar, no odor.

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
N/A		N/A	N/A
Extinguishing Media	N/A Will not burn.		
Special Fire Fighting Procedures	N/A		
Unusual Fire and Explosion Hazards	N/A		

The information presented herein is based either on data or opinion. Such data is, to the best of our knowledge, true and accurate. Such opinion is believed to be expert, and therefore generally reliable, but in some instances there are conflicts in expert opinion and in these instances we have relied on the opinion which, in our best judgment, appeared the most reasonable. All information herein is presented without guarantee or warranty and Rutland Products disclaims any liability incurred from the use thereof.

Section V - Reactivity Data

Stability	Unstable		Conditions to Avoid N/A
	Stable	X	

Incompatibility (*Materials to Avoid*)

Contact with acid will cause evolution of heat.

Hazardous Decomposition or Byproducts

None.

Hazardous Polymerization	May Occur		Conditions to Avoid None
	Will Not Occur	X	

Section VI - Health Hazard Data

Route(s) of Entry	Inhalation?	Skin?	Ingestion?
	No	Yes	Yes

Health Hazards (*Acute and Chronic*)

Skin: direct contact with skin for prolonged periods will cause reddening. Eyes: direct contact with eyes will cause watering and irritation. Prolonged contact with eyes will cause alkaline burns.

Ingestion: may cause gastrointestinal upset. Large amounts may cause alkaline burns of mouth, esophagus and stomach.

Carcinogenicity	NTP?	No	IARC Monographs?	Yes	OSHA Regulated?	No
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Respirable silica from occupational sources is listed by IARC as a human carcinogen.

Signs and Symptoms of Exposure

See health hazards.

Medical Conditions Generally Aggravated by Exposure

Skin diseases may be aggravated by contact from product.

Skin: wash off with soap and water.

Eyes: wash with water for at least 15 minutes. Consult an eye doctor.

Ingestion: consult a physician.

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

Scoop up.

Waste Disposal Method

Local landfill in accordance with local, state, and federal regulations.

Precautions to Be Taken in Handling and Storing

Keep covered when not in use. Keep out of reach of children.

Other Precautions

Rotate stock.

Section VIII - Control Measures

Respiratory Protection (*Specify Type*)

None needed.

Ventilation	Local Exhaust	Special
	Sufficient to carry away water vapor as product dries.	None
	Mechanical (<i>General</i>)	Other
	None	None

Protective Gloves

Wear rubber gloves to avoid skin contact.

Eye Protection

Wear safety glasses or splash goggles.

Other Protective Clothing or Equipment

Wear rubber apron.

Work/Hygienic Practices

Wash hands after using. Good housekeeping practices.

NAME OF PRODUCT: Rutland Refractory Cement

This product contains the following chemicals subject to the reporting requirements of Section 313 of SARA Title III.

<u>CAS Number</u>	<u>Chemical Name</u>	<u>%,WT</u>
1310-73-2	Sodium Hydroxide	1.2

NAME OF PRODUCT: Rutland Refractory Cement

<u>Cas Number</u>	<u>Chemical Name</u>	<u>%,WT</u>	<u>Reportable Quantity</u>
1310-73-2	Sodium Hydroxide	1.0	1,000 lbs.